

Oxygen (O₂) Gas Sensor Product Code: AA643-180

Product Data Sheet

Product Datasheet

2FO-N Oxygen CiTiceL®

Document Purpose

The purpose of this document is to present the performance specification of the 2FO-N oxygen sensor.

This document should be used in conjunction with Operating Principles OP02 and the Product Safety Datasheet PSDS 4.

The data provided in this document are valid at 20°C, 50% RH and 1013 mBar for 3 months from the date of sensor manufacture. For guidance on sensor performance outside of these limits, please refer to Operating Principles OP02.

Output signal can drift below the lower limit over time. For guidance on the safe use of the sensor, please refer to Operating Principles OP02.



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Technical Specifications

MEASUREMENT

Technology | Electrochemical
Measurement Range | 0-25% vol. O₂
Maximum Overload | 30% vol. O₂
Output Signal* | 0.41 ± 0.07 mA in Air

Response Time (T95)* | <10 Seconds

ELECTRICAL

Maximum Load Resistor | 100Ω

ENVIRONMENTAL

Operating Temperature Range
Recommended Storage Temp
Temperature Coefficient
Operating Pressure Range
Pressure Coefficient
Operating Humidity Range

-20°C to +45°C
0°C to 20°C
0.2% signal/°C
Atmospheric ± 10%
<0.02% signal/mbar
0 to 99%rH non-condensing

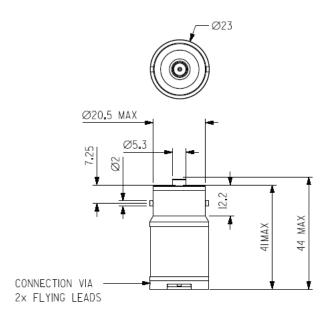
LIFETIME

Long Term Output Drift* | <5% signal/year
Expected Operating Life | 2 years in air

Storage Life 6 months in original packaging

Note : Signal <0.1% O_2 after 3 minutes in zero oxygen

Product Dimensions



All dimensions in mm.
All tolerances ±0.15 mm unless otherwise stated

* Specifications are valid at 20°C, 50% RH and 1013 mBar, using City Technology recommended circuitry. Performance characteristics outline the performance of sensors supplied within the first 3 months. Output signal can drift below the lower limit over time.

SAFETY NOTE

This sensor is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardize the safety of people and property.

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